
Preliminary Science Flight Report

Operation IceBridge Antarctica 2011



Flight: GV-FL05
Mission: LVIS-localcal

Flight Report Summary

Aircraft	NSF G-V (N677F)
Flight Number	RF05
Flight Request	118003
Date	Friday October 14 th , 2011, DOY 287
Purpose of Flight	Operation IceBridge Mission, local LVIS calibration flight
Take off time	13:10 local time from Punta Arenas (SCCI)
Landing time	14:40 local time at Punta Arenas (SCCI) on October 14, 2011
Flight Hours	1.4
Aircraft Status	Airworthy.
Sensor Status	All installed sensors operational.
Significant Issues	None
Accomplishments	<ul style="list-style-type: none">• Multiple ramp passes• Multiple angular calibration maneuvers• Completed mission as planned.
Geographic Keywords	LVIS calibration
ICESat/CryoSat Track	N/A
Repeat Mission	Punta Arenas Airport

Science Data Report Summary

Instrument	Instrument Operational			Data Volume	Instrument Issues
	Survey Area	Entire Flight	High-alt. Transit		
LVIS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5 GB	None
POS/AV (510 + 610)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.5 GB	None
LVIScameras(2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2 GB	None
G-V Onboard Data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4 MB	None

Mission Report (Michelle Hofton, Mission Scientist, Instrument Operators: David Rabine, Shane Wake)

Due to the high winds at PUQ on Thursday and no available hanger space at PUQ, the G-V was moved to Puerto Montt overnight.

The plane returned at 12:00 today and a short flight was flown to provide calibration data for the LVIS sensor and cameras.

Multiple passes over the airport were flown.

And several rolling and pitching maneuvers were executed over the water just south of the airport.

The LVIS sensor and cameras worked very well.

Individual instrument reports from experimenters on board the aircraft:

LVIS: The LVIS system worked well.

POS/AV: Systems worked well. No issues.

LVIScam: System worked well. No issues.

G-V on board data: System worked well.

Flight Hours Summary

Flight	Date	Aircraft Flight #	Data Flight#	Duration (hr)	Running Total(hr)	Remaining Science Hours*
						100.00
PUQ-PUQ	10/07/11	RF01	GV-FL01	10.7	10.7	89.3
PUQ-PUQ	10/08/11	RF02	GV-FL02	10.4	21.1	78.9
PUQ-PUQ	10/10/11	RF03	GV-FL03	10.7	31.8	68.4
PUQ-PUQ	10/12/11	RF04	GV-FL04	10.3	42.1	58.4
PUQ-PMC	10/13/11	FF01	-	1.9		
PMC-PUQ	10/14/11	FF02	-	2.1		
PUQ-PUQ	10/14/11	RF05	GV-FL05	1.4	43.5	56.5

* Extended science mission hours are available